



- MAX. EFFICIENCY 98.8%
- IP66 PROTECTION

STT 55~80kW

Three Phase | 10 MPPTs | On Grid (LV)

- Real-time fault curve recording, improve O&M efficiency
- IP66 intelligent fans, lower operation temperature, longer lifespan
- Intelligent quad-core processor, information processing more comprehensive, fast, and efficient

INTELLIGENT



- High yield with Max. Efficiency 98.8%
- Up to 10% continuous output overloading capacity
- 10 MPPT design, lower PV string mismatch loss
- DC 2 in 1 connection enabled, compatible with high-power panels

HIGH YIELD



- Support wireless and wired internet connection (RS485, WiFi/GPRS/LAN optional)
- Remote upgrading available
- Fast and easy commissioning via App or OLED display

CONVENIENCE



Model	STT-55KTL-SE-LV	STT-60KTL-SE-LV	STT-70KTL-SE-LV	STT-75KTL-SE-LV	STT-80KTL-SE-LV
Input					
Start-up Voltage (V)	200	200	200	200	200
Max. DC Input Voltage (V)	750	750	750	750	750
Rated DC Input Voltage (V)	360	360	360	360	360
MPPT Voltage Range (V)	200-750	200-750	200-750	200-750	200-750
Number of MPP Trackers	10	10	10	10	10
Number of DC Inputs per MPPT	2	2	2	2	2
Max. Input Current (A)	10*40				
Max. Short-circuit Current (A)	10*50				
Output					
Rated Output Power (W)**	55,000	60,000	70,000	75,000	80,000
Max. Output Power (W)	60,500	66,000	77,000	82,500	88,000
AC output rated apparent power(VA)	55,000	60,000	70,000	75,000	80,000
Max. Apparent Power (VA)	60,500	66,000	77,000	82,500	88,000
Grid Type (V)**	3L/N/PE, 127/220V,133/230V				
Rated AC Frequency (Hz)	50/60				
AC output rated current (A)	144.4	157.5	183.7	196.9	210
Max. Output Current (A)	158.8	173.2	202.1	216.5	231
Power Factor	0.8 leading...0.8 lagging				
THDi @ Rated Power	<3%				
DCI	< 0.5% In				
Efficiency					
Max. Efficiency	98.8%	98.8%	98.8%	98.8%	98.8%
Euro Efficiency	98.3%	98.3%	98.3%	98.3%	98.3%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%
Protection					
DC Reverse Polarity Protection	Integrated				
Insulation Resistance Detection	Integrated				
DC Switch	Optional				
Surge Protection	Integrated (Type II)				
Over-temperature Protection	Integrated				
Residual Current Protection	Integrated				
Islanding Protection	Frequency shift, Integrated				
AC Short-circuit Protection	Integrated				
AC Over-voltage Protection	Integrated				
AFCI	Optional				
General Data					
Dimensions [W*H*D] (mm)	1025*640*320				
Weight (kg)	92				
Protection Degree	IP66				
Self-consumption at Night (W)	< 1				
Topology	Transformerless				
Operating Temperature Range (° C)	-30~60				
Relative Humidity (%)	0~100				
Operating Altitude (m)	4000 (derating > 3000)				
Cooling	Smart Fan Cooling				
Display	OLED & LED				
Communication	RS485, WiFi/GPRS/LAN (Optional)				

** Due to differences in voltage values in various countries, minor variations may occur. The final interpretation rights belong to Sunways.